

IN THE CLAIMS:

1. A database processing method used in a database management system wherein a user inquiry about contents of a database made by the user is analyzed, an execution procedure command package is created in accordance with results of analyzing said user inquiry and database processing is carried out in accordance with said execution procedure command package, said method comprising:

cataloging information on a format of execution results of an embedded module implementing an operation of a built-in data type in said database management system when the user defines said built-in data type; and

selecting either a procedure for executing said embedded module for each piece of desired data composing said database or a procedure for acquiring a plurality of execution results output by execution of said embedded module in accordance with information on said format of said execution results.

2. A database processing method used in a database management system wherein a user inquiry about contents of a database made by the user is analyzed, an execution procedure command package is created in accordance with results of analyzing said user inquiry and database processing is carried out in accordance with said execution procedure command package, said method comprising:

cataloging information on module calling triggers of embedded modules each implementing an operation of a built-in data type in said database management system when the user defines said built-in data type;

adding information on embedded modules to be called on relevant module calling triggers obtained from said

information on module calling triggers of said embedded modules to said execution procedure command package when said user inquiry made by the user is analyzed and said execution procedure command package is created; and

executing said embedded modules on said relevant module calling triggers specified in said information on embedded modules added to said execution procedure command package when database processing is carried out in accordance with said execution procedure command package.

3. A database processing system comprising:

means for storing information on an evaluation style of an embedded module which implements an operation of a user-defined data type and information on module calling triggers for calling the embedded module;

means for selecting the evaluation style upon creation for an execution procedure command package;

means for adding information on the embedded module at a time when a user inquiry is made; and

means for calling the embedded module on module calling triggers when database processing is carried out in accordance with the execution procedure command package.

4. The system according to claim 3, wherein the evaluation style corresponds to one of line evaluation and set evaluation.

5. A database management system comprising:

preprocess processing means for creating an execution procedure command package; and

execution processing means for obtaining data according to a predefined evaluation style, the execution control means

obtaining data from a dedicated index data via an embedded module calling process.

6. A database management system according to claim 5, wherein the preprocess processing means receives a user inquiry and embedded module defining information and performs user inquiry analysis, abstract data type (ADT) function analysis and non-ADT function analysis.

7. A database management system according to claim 5, wherein the execution processing means operates module calling triggers contained in embedded module defining information which is received by the preprocess processing means.

8. A database management system according to claim 6, wherein the execution processing means operates module calling triggers contained in the embedded module defining information.

9. A database management system according to claim 5, wherein the embedding module calling process determines if data manipulation is necessary and acquires abstract data type (ADT) information if data manipulation is necessary and acquires a module calling trigger if data manipulation is not necessary.

10. A database management system according to claim 8, wherein the embedding module calling process determines if data manipulation is necessary and acquires ADT information if data manipulation is necessary and acquires a module calling trigger if data manipulation is not necessary.

11. A database management system according to claim 7, wherein the embedding module calling process determines if data manipulation is necessary and acquires ADT information if data manipulation is necessary and acquires a module calling trigger if data manipulation is not necessary.